

**FACILITATING INVERSE MULTIPLEXING OVER ASYNCHRONOUS  
TRANSFER MODE VIA COMMUNICATION LINKS HAVING DISPARATE  
DATA TRANSMISSION RATES**

**ABSTRACT OF THE DISCLOSURE**

5        A method for facilitating inverse multiplexing over asynchronous transfer mode is disclosed herein. The method includes receiving a stream of sequentially aligned ATM cells via an originating end point logical communication link. A sequence identifier is associated with each one of the ATM for creating sequence identified ATM cells. The sequence identified ATM cells are forwarded to an destination endpoint logical  
10      communication link in a distributed manner over a plurality of IM communication links. A first one of said IM communication links has disparate data transmission rates in at least one data transmission direction with respect to a second one of the IM communication links.